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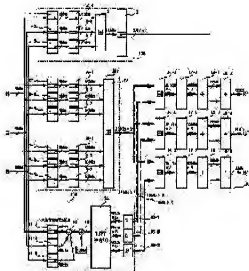
(54) IMAGE PROCESSING UNIT AND ITS METHOD

(57)Abstract:

PURPOSE: To provide the image processing unit high in accuracy of interpolation, flexible in grid dot selection and high in sped of processing by providing 1st to 3rd tables used to calculate respectively weighting factors, divisors and reference addresses of N-dimension table used for interpolation processing.

CONSTITUTION: A divisor calculation block 100 is provided with tables 1, 2 and, by inputting values of R, G, B, outputs the volume of a rectangular prism formed by 8 grid points surrounding a point P whose coordinate values are the values above-mentioned on a LUT 14. A weighting factor calculation block 101 is provided with tables 6 to 9, which calculate a weighting factors to be provided to the point P to obtain values R', G', B' of the point P through interpolation processing.

Furthermore, a LUT read block 102 uses the received R, G, B values to refer to the LUT 14 to obtain the values R', G', B' on the 8 grid points subjected to color correction processing and an adder means 12 adds the value outputted from a table 11 to the values thereby obtaining a start address used to refer to the LUT 14 immediately.



LEGAL STATUS

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